

Date: Thursday, 9/28/2006 3:57:02 PM
 User: Kim Johnston

Process Sheet

| | |
|--|--|
| Customer : CU-DAR001 Dart Helicopters Services | Drawing Name : 350/355 AS X-TUBE AFT |
| Jpb Number : 28776 | |
| Estimate Number : 12486 | |
| P.O. Number : N/A | Part Number : D350748201 |
| This Issue : 9/28/2006 S.O. No. : N/A | Drawing Number : IIN-D350-748 PG5 |
| Prsht Rev. : NC | Project Number : N/A |
| First Issue : N/A Type : LANDING GEAR | Drawing Revision : A UNDER REVIEW 06.10.03 |
| Previous Run : 28775 | Material : N/A |
| Written By : _____ | Due Date : 11/20/2006 Qty: 1 Um: Each |
| Checked & Approved By : _____ | |
| Comment : Est Rev: A New Issue 06-07-05 JLM Est Rev: B Update qty of MS21042L5 06-09-12 KJ | |

Additional Product

Job Number:



| Seq. #: | Machine Or Operation: | Description : |
|---------|-----------------------|------------------|
| 1.0 | DC | DOCUMENT CONTROL |



FS 06.10.03

Comment: Photocopy bluefile & type labels per PPPD350-748-201 CHG001

C 207/04/04 11

| | | |
|-----|--------|--------------------------|
| 2.0 | 28776A | X-TUBE AS 350/355 HI AFT |
|-----|--------|--------------------------|



Comment: Sub-Component X-TUBE AS 350/355 HI AFT
 D350-748-241 B B28776A

| | | |
|-----|-------------|-----------------------|
| 3.0 | PACKAGING 1 | PACKAGING RESOURCE #1 |
|-----|-------------|-----------------------|



Comment: PACKAGING RESOURCE #1
 Pick Packing Kit

| | | |
|-----|--------|------------|
| 4.0 | D35001 | 350 SADDLE |
|-----|--------|------------|



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)
 350 SADDLE
 Batch: B28477

| | | |
|-----|--------|---------|
| 5.0 | D35011 | BUSHING |
|-----|--------|---------|



Comment: Qty.: 16.0000 Each(s)/Unit Total : 16.0000 Each(s)
 BUSHING
 Batch: B28795

07/04/3 SQ

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:57:02 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 350/355 AS X-TUBE AFT

Job Number: 28776

Part Number: D350748201

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

AN46A

Bolt



Comment: Qty.: 16.0000 Each(s)/Unit Total: 16.0000 Each(s)

Bolt

Batch: M102959 x2 / 14x m102115

7.0

AN441A

bolt



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

bolt

Batch: M101538

8.0

AN532A

Bolt



Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s)

Bolt

Batch: M103338

9.0

AN960JD416

Washer



Comment: Qty.: 32.0000 Each(s)/Unit Total: 32.0000 Each(s)

Washer

Batch: M102929

10.0

AN960JD516

Washer



Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s)

Washer

Batch: M102519

11.0

MS21042L4

Nut



Comment: Qty.: 24.0000 Each(s)/Unit Total: 24.0000 Each(s)

Nut

Batch: M103914

12.0

MS21042L5

Nut




Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s)

Nut

Batch: M100564

07/04/13 SP

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes ☐ No ☒ DQA:  Date: 07/04/05
 QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:57:03 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 350/355 AS X-TUBE AFT

Job Number: 28776

Part Number: D350748201

Job Number:



Seq. #:

Machine Or Operation:

Description :

13.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

Handwritten: 07/4/05 (1)
C207104104 (X1)

14.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-748-201

Location:

PPP Rev:

Handwritten: DRAFT

Handwritten: 07/4/05

Handwritten: SD

15.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Handwritten: 07/04/05 (1)

Job Completion



Handwritten: C207104105

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

3.10 Apply a continuous bead of Sikaflex-241/-291 or Proseal 890 or MIL-S-8802 Class B2 sealant in the following locations as per Figure 6:

- A) Along saddle/crosstube interface.
- B) Between the saddle flanges.
- C) Along saddle/skidtube interface.

4.0 WEIGHT AND BALANCE

The following weight and balance information is for Dart crosstube installations only. This data should be similar to the existing installation. Differences from the parts removed are the responsibility of the installer.

| DART CROSSTUBE | FWD/AFT | WEIGHT | STA | MOMENT |
|----------------|---------|----------------------|----------------------|---------------------------|
| D350-748-101 | Fwd | 35.2 lb (16.0 kg) | 106.3 in (2.70 m) | 3742 lb-in (43.2 kg-m) |
| D350-748-201 | Aft | 34.7 lb (15.7 kg) | 162.4 in (4.12 m) | 5635 lb-in (64.7 kg-m) |

5.0 PARTS LIST

| Qty -101 | Qty -201 | Part Number | Description |
|----------|----------|---------------|---|
| X | | D350-748-101 | CROSSTUBE INSTALLATION, AS 350/355 HIGH FWD |
| | X | D350-748-201 | CROSSTUBE INSTALLATION, AS 350/355 HIGH AFT |
| 1 | | D350-748-141 | CROSSTUBE ASSEMBLY, AS 350/355 HIGH FWD |
| | 1 | D350-748-241 | CROSSTUBE ASSEMBLY, AS 350/355 HIGH AFT |
| *2 | *2 | D3502-1 | SUPPORT |
| *2 | *2 | D2856-400-710 | ABRASION STRIP |
| *1 | *1 | AELS-1032-225 | INSERT |
| *2 | *2 | MS21920-20 | CLAMP |
| *1 | *1 | MS27039-1-10 | SCREW |
| *1 | *1 | AN960JD10 | WASHER |
| 4 | 4 | D3500-1 | SADDLE |
| 16 | 16 | D3501-1 | BUSHING |
| 16 | 16 | AN4-6A | BOLT |
| 8 | 8 | AN4-41A | BOLT |
| 4 | 4 | AN5-32A | BOLT |
| 32 | 32 | AN960JD416 | WASHER |
| 8 | 8 | AN960JD516 | WASHER |
| 24 | 24 | MS21042L4 | NUT (OR MS21042-4) |
| 4 | 4 | MS21042L5 | NUT (OR MS21042-5) |

* REFERENCE ONLY. PARTS ARE INCLUDED IN D350-748-141/241 ASSEMBLIES ABOVE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 28776

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Revision: A

Date: 06.05.08

Date: Thursday, 9/28/2006 3:57:21 PM
 User: Kim Johnston

Process Sheet

| | |
|--|--|
| Customer : CU-DAR001 Dart Helicopters Services | Drawing Name : X-TUBE AS 350/355 HI AFT |
| Job Number : 28776A | |
| Estimate Number : 12483 | |
| P.O. Number : N/A | Part Number : D350748241 |
| This Issue : 9/28/2006 S.O. No. : N/A | Drawing Number : D350-748-241 |
| Prsht Rev. : NC | Project Number : NA |
| First Issue : N/A Type : LANDING GEAR | Drawing Revision : C UNDER REVIEW 06.10.03 Rev.D |
| Previous Run : 28775A | Material : N/A 07.02.04 |
| Written By : <u> </u> | Due Date : 11/20/2006 Qty: 1 Unit: Each |
| Checked & Approved By : <u> </u> | |
| Comment : Est Rev: A New Issue 06-07-05 JLM | |
| Est Rev: B Update cadplate process 06-09-12 KJ | |

Additional Product

Job Number:



| | | |
|----------------|------------------------------|----------------------|
| Seq. #: | Machine Or Operation: | Description : |
|----------------|------------------------------|----------------------|

| | | |
|-----|----|------------------|
| 1.0 | DC | DOCUMENT CONTROL |
|-----|----|------------------|

**Comment:** DOCUMENT CONTROL

Photocopy bluefile and create labels as per PPP D350-748-241 CHG001

N/A

| | | |
|-----|----------|--------------------|
| 2.0 | D6018125 | Crosstube Material |
|-----|----------|--------------------|

**Comment:** Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Crosstube Material

D6018-125

2.299" OD X 2.000" ID

Batch: 327472

06/10/04

1

| | | |
|-----|------------|----------------------------|
| 3.0 | MORI SEIKI | MORI SEIKI CNC LATHE LARGE |
|-----|------------|----------------------------|

**Comment:** MORI SEIKI CNC LATHE LARGE

1-Fill tube with sand & install plugs on both ends as per Folio FA647

2-Turn first side as per Folio FA647

3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D350-748-241. MS 06/10/06

| | | |
|-----|-----|------------------------------|
| 4.0 | QC1 | INSPECT ALL DIM TO DIM SHEET |
|-----|-----|------------------------------|

**Comment:** INSPECT ALL DIM TO DIM SHEET

MS 06/10/06

1

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:57:21 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI AFT

Job Number: 28776A

Part Number: D350748241

Job Number:



Seq. #:

Machine Or Operation:

Description :

5.0

MORI SEIKI

MORI SEIKI CNC LATHE LARGE



Comment: MORI SEIKI CNC LATHE LARGE

1-Turn second side as per Folio FA647

2-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D350-748-241.

3-Scribe part # as per Dwg D350-748-241

MS 06/10/16

6.0

QC1

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET

MS 06/10/16

7.0

QC8

SECOND CHECK



Comment: SECOND CHECK

BF 06.10.08

8.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

Remove all Machining Marks

ND 06-10-13

9.0

OUTSIDE SERVICE

OUTSIDE SERVICES



Comment: Sub-Contracting OUTSIDE SERVICES

Issue P/O: 2263

C 206/10/17 @

Heat Treat to min 180 KSI As per Dwg D350-748-241

Sand Blast tube after Heat Treat

Possibe Supplier: Vac Aero

Ensure Certificate of Conformity is attached

10.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure certificate of conformaty is attached

LB 06/11/30 @

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|----------|------|---|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| 07.02.13 | 16 | MAGNETIC PARTICLE INSPECT PER DART CSI 03B 4.2 Cadmium Plate per AMS-QQ-P-416B, CLASS 1, TYPE II. REF J35074B-2A1 Rev D | | | | CP 07.02.13 Dev CSI 142 | 07.02.13 |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:57:22 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI AFT

Job Number: 28776A

Part Number: D350748241

Job Number:



Seq. #:

Machine Or Operation:

Description :

11.0

QC6

DIMENSIONAL CHECK



Job 12-04 ①



Comment: DIMENSIONAL CHECK

12.0

HAND FINISHING1

HAND FINISHING RESOURCE #1.



Comment: HAND FINISHING RESOURCE #1

Oil inside of tube with LPS-3.

A/R

LPS-3

Batch:

M101915 DP/EL 6-12-7

13.0

BENDING

BENDING MACHINE



Comment: BENDING MACHINE

Bend tube as per Dwg D350-748-241 using CNC bender program D350A and Folio FT

DP 6-12-7

14.0

QC6

DIMENSIONAL CHECK



Job 12-21 ①



Comment: DIMENSIONAL CHECK

15.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Remove all marks from tube within limits of D350-748-241

IT 06-12-27

2-Drill Tube as per Dwg D350-748-241 Using DT8876 Drill Jigs,

IT 06-12-22

Set-up drill table as per QSI 010

3-Deburr

IT 06-12-27

4-Engrave Part # and Batch # as per Dwg D350-748-241

DP 6-12-27

16.0

OUTSIDE SERVICE

OUTSIDE SERVICES



Comment: Sub-Contracting OUTSIDE SERVICES

Issue P/O: *3206*

C207102/28 ①

POSITIVE RECALL

Stress relief at 375° for 5 hours

EFFECTIVE *06.10.03* AUTH *JP*

Magnetic Particle Inspect per ASTM E1444

RELEASED *07.02.13* DATE *07.02.13*

Cadium Plate per QQ-P-416F, Class 1, Type 2

SEE WORK ORDER CHANGE

Embrittle relief at 375° for 8 hours, Chromate Treat

Possible Supplier: Southwest United Industries

REF. D350-748-241 Rev.D

Ensure Certificate of Conformity is attached

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | | |
|----------|------|-----------------------|------------|----------|-----|-------------------------------------|--------------------------|--|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector | |
| 07.02.13 | 15.1 | Adel QCS Perm. change | | | | | | |
| | | QCS | P 07.02.13 | 07.02.13 | 1 | 07.02.13 | 07.02.13 | |
| | | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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NOTE: Date & initial all entries

Date: Thursday, 9/28/2006 3:57:22 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI AFT

Job Number: 28776A

Part Number: D350748241

Job Number:



Seq. #:

Machine Or Operation:

Description :

17.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure certificate of conformity is attached

Per 1/3/28 ①

18.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

Job 28 ①

19.0

SPRAY PAINTING

SPRAY PAINTING



Comment: SPRAY PAINTING

1-Prime inside crosstube as per QSI 005 4.2

FC 07/04/02 ①

2-Paint Outside of Tube as per Dart QSI 005 4.2

MC 07/04/03 ①

20.0

QC14

Inspect Spray Paint



Comment: Inspect Spray Paint

Then, Wrap in plastic bag to protect from scratches

RT 07-04-04

21.0

D35021

SUPPORT



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

SUPPORT

Batch: 28476

RT 07-04-05

22.0

D2856400

Abrasion Strip



Comment: Qty.: 1.2401 f(s)/Unit Total: 1.2401 f(s)

Abrasion Strip 7.10" long x2

Batch: 29850

RT 07-04-05

23.0

ALS41032225

Insert



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Insert

Batch: 19393

RT 07-04-05

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Job Number: 28776A

Part Number: D350748241

Job Number:



Seq. #:

Machine Or Operation:

Description :

24.0

AN960JD10

Washer



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Washer

Batch: 103641

BT 07-04-05

25.0

MS2192020

Clamp (per MIL-DTL-8783C)



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Clamp (per MIL-DTL-8783C)

Batch: 102440

BT 07-04-05

26.0

MS27039110

Screw



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Screw

Batch: 18836

BT 07-04-05

27.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Install Ground wire Insert, then insert screw and washer

2-Install Abrasion strips as per Dwg D350-748-241 & QSI 035.

3-Install supports Using Dt8876 as per Dwg D350-748-241, Torque to 60-80 IN-LBS

BT 07-04-05

28.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

DP 7-4-5

29.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-748-241

Location: _____

PPP Rev: _____

PPP B2F776

07/4/5

| W/O: | | WORK ORDER CHANGES | | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|--|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector | |
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| | | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: 1 Date: 07/04/05
 QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
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Date: Thursday, 9/28/2006 3:57:22 PM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI AFT

Job Number: 28776A

Part Number: D350748241

Job Number:



Seq. #:

Machine Or Operation:

Description :

30.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

07/04/05

Job Completion



C 07/04/05

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

DART

| | | | |
|------------------|-------------------|--|------------------------|
| DESIGN <i>Q</i> | DRAWN BY <i>Q</i> | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| CHECKED <i>#</i> | APPROVED <i>#</i> | DRAWING NO. D350-748-241 | REV. C SHEET 1 OF 3 |
| DATE 06.08.14 | | TITLE CROSSTUBE (AS 350/355 HI AFT) NTS | |
| A | 06.03.31 | NEW ISSUE | |
| B | 06.06.30 | ADD D6018-125 & PRIME AND PAINT | |
| C | 06.08.14 | ADD CAD PLATING | |

UNDER REVIEW

Q 06.08.14
CAD PLATING PROCEDURE
WILL CHANGE

| QTY | P/N | DESCRIPTION |
|-----|---------------|--|
| X | D350-748-241 | CROSSTUBE ASSEMBLY (AS 350/355 HI AFT) |
| 1 | D6018-125 | CROSSTUBE (OR D6015-125) |
| 2 | D3502-1 | SUPPORT |
| 2 | D2856-400-710 | ABRASION STRIP |
| 1 | AELS-1032-225 | INSERT |
| 1 | AN960JD10 | WASHER |
| 2 | MS21920-20 | CLAMP (PER DART SPEC. M-MS21920-20) |
| 1 | MS27039-1-10 | SCREW |

D350-748-141 CROSSTUBE:

- 1) MATERIAL: MANUFACTURED FROM D6018-125 OR D6015-125
FINISHED LENGTH = 122.70±0.06
- 2) MACHINE PER MACHINING DETAIL ON PAGE 3. BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALLY, TRANSITIONS SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER BENDING.
- 3) SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- 4) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 5) HEAT TREAT TO MIN. 180 KSI PER MIL-T-6736 OR AMS 2759-1C AFTER TURNING
- 6) FINISH: CADMIUM PLATE PER QQ-P-416F, CLASS 1, TYPE II
MAGNETIC PARTICLE INSPECT PER ASTM E1444 AFTER CADMIUM PLATING
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2
- 7) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO CRACKING/CHIPPING/GROOVES.
- 8) INSTALL D2856-400-710 ABRASION STRIP WITH A GAP ON BOTTOM SIDE OF CROSSTUBE CENTERED OPPOSITE D3502-1 SUPPORT, PER QSI 035.
- 9) TORQUE MS21920-20 CLAMPS 60 TO 80 IN-LB
- 10) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 11) ALL DIMENSIONS ARE IN INCHES
- 12) PART IS SYMMETRIC ABOUT CENTERLINE EXCEPT FOR Ø0.297 HOLE.

See
Rev.D

Q 06.08.14

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06.08.15 *#*

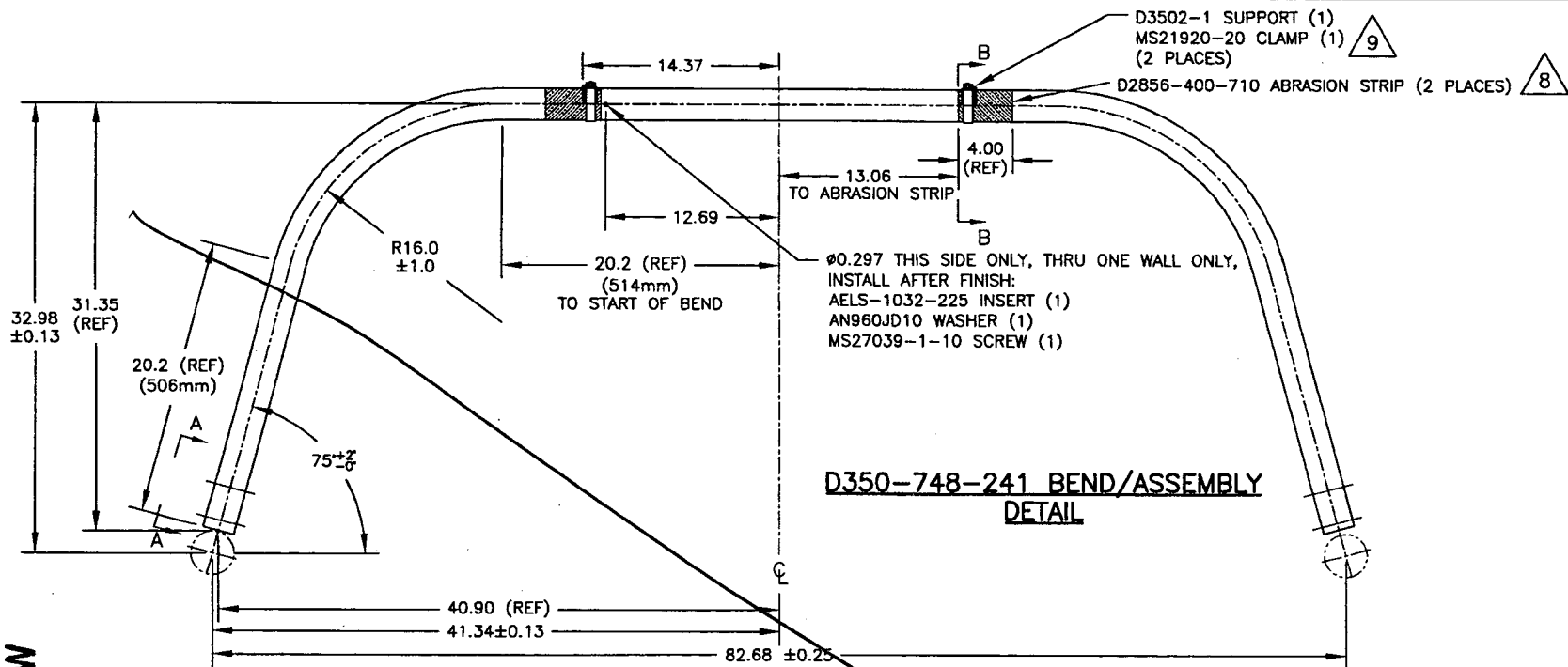
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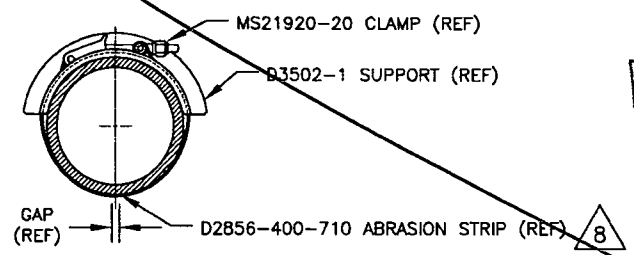
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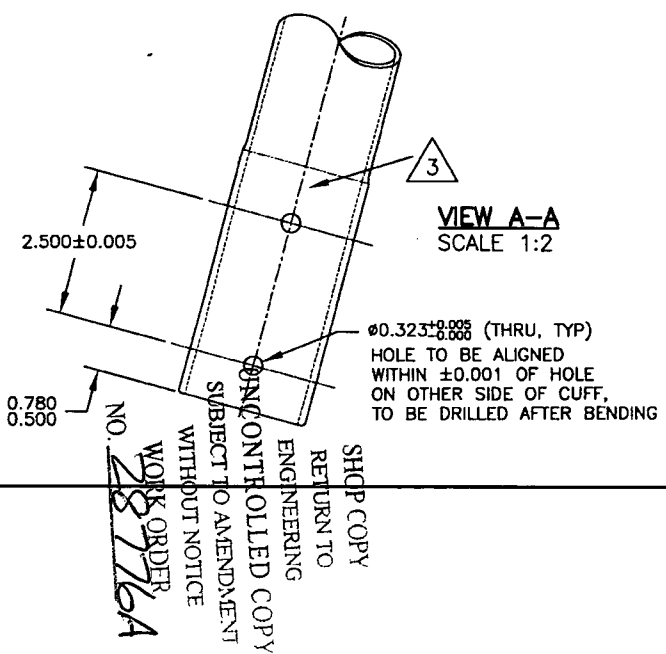


**D350-748-241 BEND/ASSEMBLY
DETAIL**

**SECTION B-B
SCALE 1:2**



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| | | DATE | 06.08.14 | TITLE | | CROSSTUBE (AS 350/355 HI AFT) | REV. C SHEET 2 OF 3 SCALE 1:8 |

Q670213
Rev D
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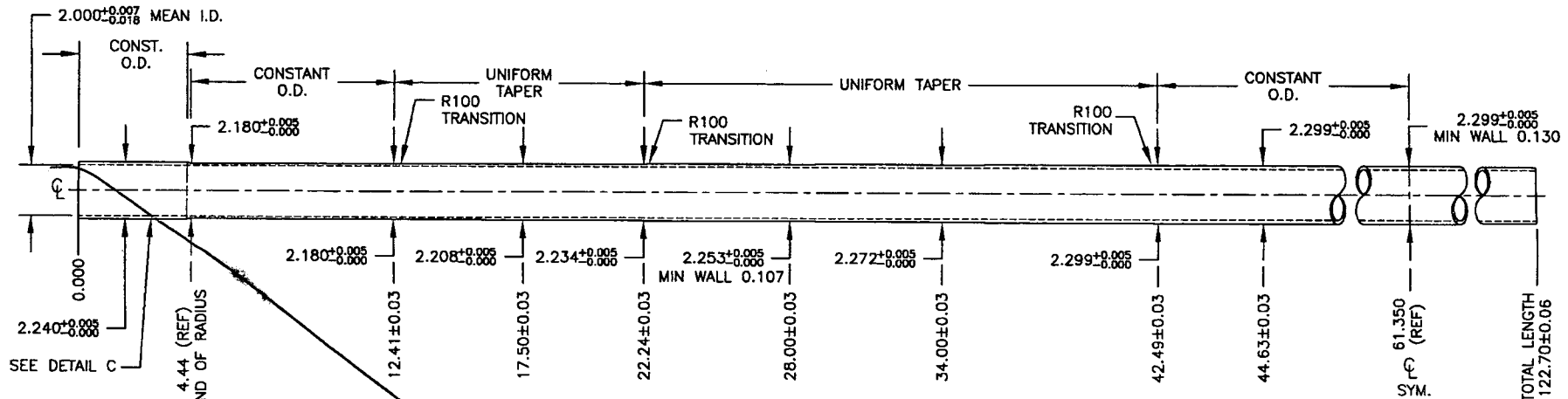
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06.08.15

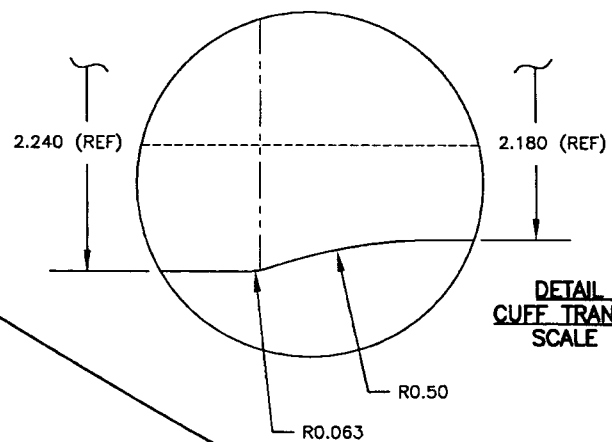
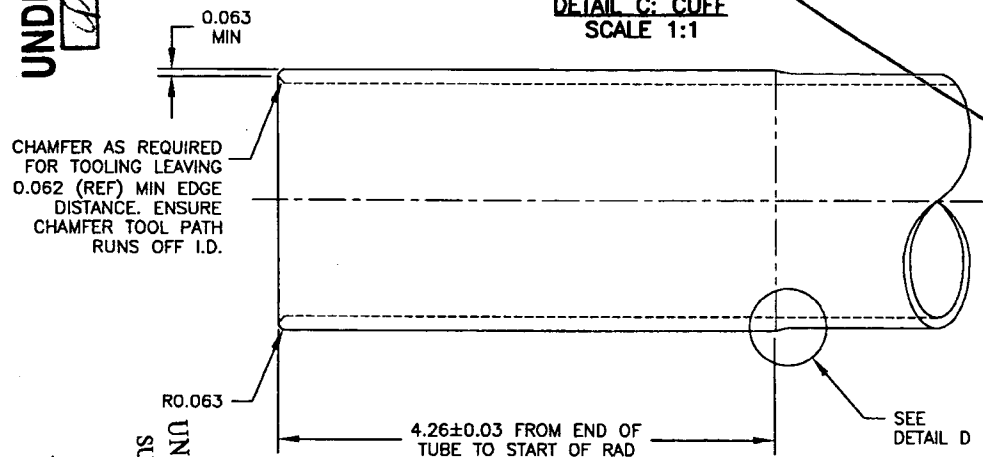
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06.08.15

D350-748-241 MACHINING DETAIL



DETAIL C: CUFF
SCALE 1:1



DETAIL D:
CUFF TRANSITION
SCALE 9:1

| | | | | | | | |
|----------|--|----------|--|--------------------------------|--|---------------------|--|
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| CHECKED | | APPROVED | | DRAWING NO. | | REV. C | |
| DATE | | DATE | | TITLE | | SHEET 3 OF 3 | |
| 06.08.14 | | 06.08.14 | | CROSSTUBE (AS 350/355 HI. AFT) | | SCALE 1:4 | |

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WORK ORDER
SUBJECT TO AMENDMENT
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SHOP COPY

67.02.17
Rev. D
Set

| | |
|--|--------------------------------|
| DART AEROSPACE LTD | Work Order: 28776A |
| Description: Crosstube Assembly | Part Number: D350748241 |
| Inspection Dwg: D350-748-241 Rev: C | Page 1 of 1 |

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

| Inspection Sheet Drawing Dimension | Tolerance | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|---------------------------------------|-----------|---------------------|--------|--------|-------------------------|----------|
| SIDE A | 2.240 | +0.005 -0.000 | 2.245 | ✓ | | |
| | 2.180 | +0.005 -0.000 | 2.184 | ✓ | | |
| | 2.208 | +0.005 -0.000 | 2.212 | ✓ | | |
| | 2.234 | +0.005 -0.000 | 2.238 | ✓ | | |
| | 2.253 | +0.005 -0.000 | 2.257 | ✓ | | |
| | 2.272 | +0.005 -0.000 | 2.277 | ✓ | | |
| | 2.299 | +0.005 -0.000 | 2.303 | ✓ | | |
| | .063 | +0.010 -0.010 | .063 | ✓ | | |
| | R.50 | +0.010 -0.010 | .50 | ✓ | | |
| | 4.26 | +0.030 -0.030 | 4.26 | ✓ | | |
| | | | | | | |
| | | | | | | |
| SIDE B | 2.240 | +0.005 -0.000 | 2.245 | ✓ | | |
| | 2.180 | +0.005 -0.000 | 2.184 | ✓ | | |
| | 2.208 | +0.005 -0.000 | 2.212 | ✓ | | |
| | 2.234 | +0.005 -0.000 | 2.238 | ✓ | | |
| | 2.253 | +0.005 -0.000 | 2.257 | ✓ | | |
| | 2.272 | +0.005 -0.000 | 2.276 | ✓ | | |
| | 2.299 | +0.005 -0.000 | 2.303 | ✓ | | |
| | .063 | +0.010 -0.010 | .063 | ✓ | | |
| | R.50 | +0.010 -0.010 | .50 | ✓ | | |
| | 4.26 | +0.030 -0.030 | 4.26 | ✓ | | |
| | 122.70 | ±0.060 | 122.70 | ✓ | | |
| | | | | | | |

| | | |
|------------------------|-----------------------|--------------------------------|
| Measured by: M8 | Audited by: BG | Prototype Approval: N/A |
| Date: 06/10/06 | Date: 06-10-08 | Date: N/A |
| Rev A | Date | Change New Issue |
| | | Revised by KJ/JLM |
| | | Approved |



VAC AERO

INTERNATIONAL INC.

PACKING SLIP

OAK 80520-1

11/27/2006

MM / DD / YYYY

PAGE: 1



HEAD OFFICE

1371 SPEERS ROAD, OAKVILLE, ONTARIO
CANADA L6L 2X5
TEL: (905) 827-4171 FAX: (905) 827-7489



QUEBEC DIVISION

7450 RUE VÉRITÉ STREET, ST. LAURENT, QUÉBEC
CANADA H4S 1C5
TEL: (514) 334-4240 FAX: (514) 334-6269

GST No.: R105468102

1DAR01

BILL TO: DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY, ON

SHIP TO: DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY, ON

K6A 1K7

K6A 1K7

| DATE SHIPPED | SHIP VIA | F.O.B. |
|------------------|----------|--------|
| 11/27/2006 | | ORIGIN |
| CUSTOMER P/O No. | JOB No. | TERMS |
| PO00002263 | | COD |

| LN | PART NO | DESCRIPTION | UOM | QTY ORDERED | QTY SHIPPED | B/O QTY |
|----|------------------|--|-----|-------------|-------------|---------|
| 01 | D350-CROSS TUBES | | EA | 8 | 8 | 0 |
| | | Process Specifications: Procedure: 4353 HEAT TREATED TO 180-200 KSI PER AMS 2759-1C 100% HARDNESS TESTED PER ASTM E-18 HRC 40-43 MATERIAL: 4130 SANDBLASTED PARTS | | | | |
| | 1 PIECE | D350748141 B28771 | | | | |
| | 1 PIECE | D350748141 B28770 | | | | |
| | 1 PIECE | D350748141 B28772 | | | | |
| | 1 PIECE | D350748141 B28773 | | | | |
| | 1 PIECE | D350748241 B28776 | | | | |
| | 1 PIECE | D350748241 B28777 | | | | |
| | 1 PIECE | D350748241 B28775 | | | | |
| | 1 PIECE | D350748241 B28774 | | | | |
| 02 | MC | MINIMUM CHARGE | | 1 | 1 | 0 |

No claims for shortage in weight or count will be entertained, unless presented within 5 working days after receipt of materials by customer.



VACUUM BRAZING · HEAT TREATING · SPECIAL PROCESSING · FURNACE EQUIPMENT
TURNING COMPONENT OVERHAUL · PLASMA AND OTHER COATINGS



HEAT
TREATING



VAC AERO
INTERNATIONAL INC.

RELEASE NOTE

GST No.: R105468102

OAK 80520-1



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CANADA L6L 2X5
TEL: (905) 827-4171 FAX: (905) 827-7489



2009 WYECROFT ROAD, UNIT B
OAKVILLE, ONTARIO
CANADA L6L 6J4
TEL: (905) 827-7377 FAX: (905) 827-1380



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11/27/2006

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PAGE: 1

1DAR01

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HAWKESBURY, ON

SHIP TO: DART AEROSPACE LTD.
1270 ABERDEEN ST.
HAWKESBURY, ON

K6A 1K7

K6A 1K7

| DATE SHIPPED | SHIP VIA | F.O.B. |
|------------------|----------|--------|
| 11/27/2006 | | ORIGIN |
| CUSTOMER P/O No. | JOB No. | TERMS |
| PO00002263 | | COD |

| PART No. | DESCRIPTION | UOM | QTY ORD | QTY SHPD | TEST RESULTS |
|---|-------------|-----|------------|-------------|--------------|
| D350-CROSS TUBES | | EA | 8 | 8 | |
| <p>Process Specifications: Procedure: 4353 HEAT TREATED TO 180-200 KSI PER AMS 2759-1C 100% HARDNESS TESTED PER ASTM E-18 HRC 40-43 MATERIAL: 4130 SANDBLASTED PARTS</p> <p>1 PIECE D350748141 B28771 1 PIECE D350748141 B28770 1 PIECE D350748141 B28772 1 PIECE D350748141 B28773 1 PIECE D350748241 B28776 1 PIECE D350748241 B28777 1 PIECE D350748241 B28775 1 PIECE D350748241 B28774</p> | | | | | |

100% HARDNESS TESTED
8 PCS → 42/43 HRC

V.A.I.O.
TH.
27
Q.C.

I hereby certify that the material covered by this release note has been inspected and tested and conforms to all specifications relevant thereto in accordance with the conditions of the contract / or purchase order.

ON BEHALF OF VAC AERO INTERNATIONAL INC.

Authorized Q.C. Inspector



VACUUM BRAZING · HEAT TREATING · SPECIAL PROCESSING · FURNACE EQUIPMENT
THERMAL COMPONENT OVERHAUL · PLASMA AND OTHER COATINGS



HEAT
TREATING

DART AEROSPACE
1270 Aberdeen Str.
Hawkesbury, ON
K6A 1K7

| | | |
|----------------------------|---|---------------|
| N° DE COMMANDE - ORDER NO. | DÉP. - DEPT. | DATE 06-10-17 |
| VENDEUR À - SOLD TO | EXPÉDIÉ À - SHIP TO VAC AERO 1371 Speers Rd | |
| ADRESSE - ADDRESS | ADRESSE - ADDRESS Oakville, ON L6L 2X5 | |

| | | | | |
|-----------------------------------|-----|--------------------|----------------------------------|--|
| DATE D'EXPÉDITION - SHIPPING DATE | VIA | CONDITIONS - TERMS | N° D'ENR. DE TAXE - TAX REG. NO. | VENDEUR - SALESPERSON 905-827-4471 AMINESH |
|-----------------------------------|-----|--------------------|----------------------------------|--|

1 D350-748-141 B28771A

~~1 D350-748-141 B28770A~~

1 D350-748-141 B28773A

1 D350-748-141 B28772A

1 D350-748-241 B28776A

1 D350-748-241 B28777A

1 D350-748-241 B28775A

1 D350-748-241 B28774A

430
MAT'L

Heat treat to min. 180 Ksi

Sand blast after heat treat

Certificate of conformity req'd with return

Return via Epic collect
acct # 4300450343

TPS/GST

TVP/PST

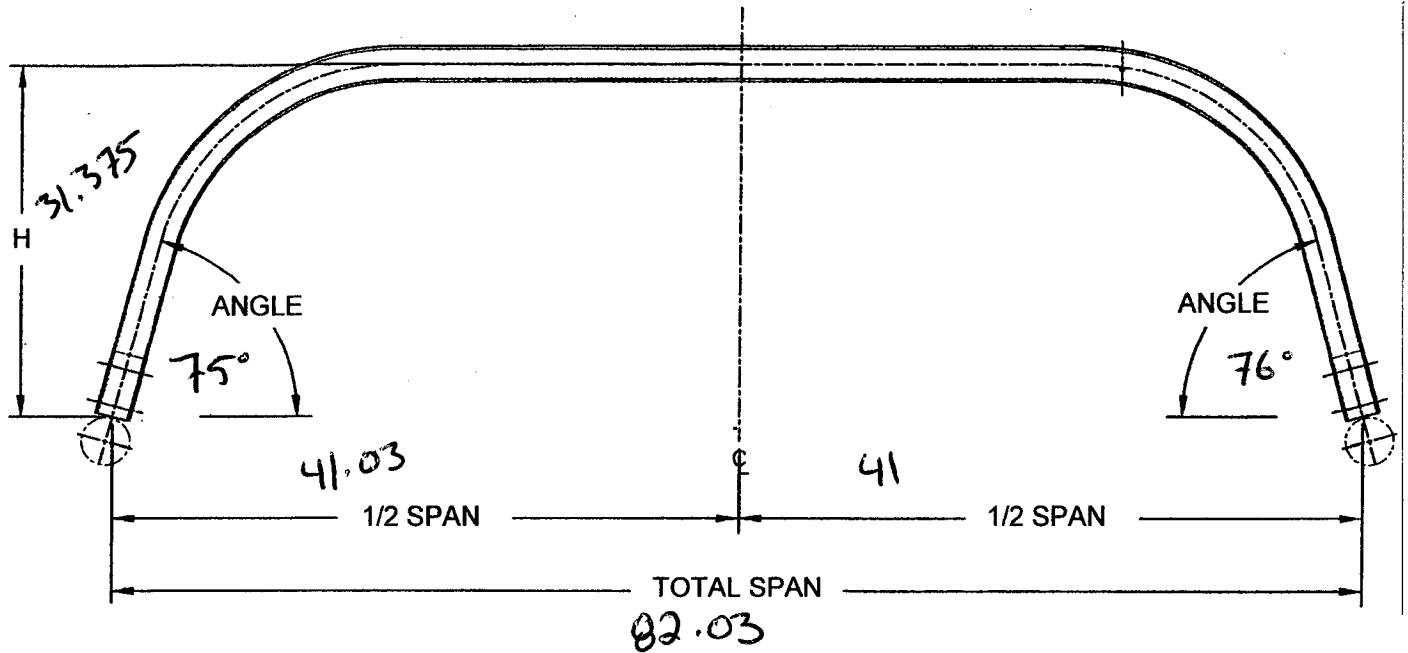
274726

SIGNATURE

N° LIC. - LIC. NO.

TOTAL

Crosstube Bend Dimension Sheet



PART NUMBER: Ø350 748 241

BATCH NUMBER: 28776

DRAWING: Ø350 748 241 REVISION: C

H: 31.35

1/2 SPAN: 40.90

TOTAL SPAN: 81.8

ANGLE: 75

QC 15: [Signature]
 DATE: 06.12.21
 QTY: 1

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06.10.31

| | | | |
|------------------|----------------|--|------------------------|
| DESIGN 92 | DRAWN BY 92 | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| CHECKED H | APPROVED H | DRAWING NO. D350-748-241 | REV. D SHEET 1 OF 3 |
| DATE 06.10.31 | | TITLE CROSSTUBE (AS 350/355 HI AFT) | SCALE NTS |
| A | 06.03.31 | NEW ISSUE | |
| B | 06.06.30 | ADD D6018-125 & PRIME AND PAINT | |
| C | 06.08.14 | ADD CAD PLATING | |
| D | 06.10.31 | MAG. PARTICLE AND CAD PLATE AS MFD. | |

| QTY | P/N | DESCRIPTION |
|-----|---------------|--|
| X | D350-748-241 | CROSSTUBE ASSEMBLY (AS 350/355 HI AFT) |
| 1 | D6018-125 | CROSSTUBE (OR D6015-125) |
| 2 | D3502-1 | SUPPORT |
| 2 | D2856-400-710 | ABRASION STRIP |
| 1 | AELS-1032-225 | INSERT |
| 1 | AN960JD10 | WASHER |
| 2 | MS21920-20 | CLAMP (PER DART SPEC. M-MS21920-20) |
| 1 | MS27039-1-10 | SCREW |

D350-748-141 CROSSTUBE:

- 1) MATERIAL: MANUFACTURED FROM D6018-125 OR D6015-125
FINISHED LENGTH = 122.70±0.06
- 2) MACHINE PER MACHINING DETAIL ON PAGE 3. BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALLY, TRANSITIONS SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER BENDING.
- 3) SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- 4) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 5) HEAT TREAT TO MIN. 180 KSI PER MIL-T-6736 OR AMS 2759-1C AFTER TURNING
- 6) FINISH: MAGNETIC PARTICLE INSPECT PER DART QSI 038 4.2
CADMIUM PLATE PER AMS-QQ-P-416B, CLASS 1, TYPE II
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART QSI 005 4.2
- 7) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO CRACKING/CHIPPING/GROOVES.
- 8) INSTALL D2856-400-710 ABRASION STRIP WITH A GAP ON BOTTOM SIDE OF CROSSTUBE, CENTERED OPPOSITE D3502-1 SUPPORT, PER QSI 035.
- 9) TORQUE MS21920-20 CLAMPS 60 TO 80 IN-LB
- 10) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 11) ALL DIMENSIONS ARE IN INCHES
- 12) PART IS SYMMETRIC ABOUT CENTERLINE EXCEPT FOR Ø0.297 HOLE.

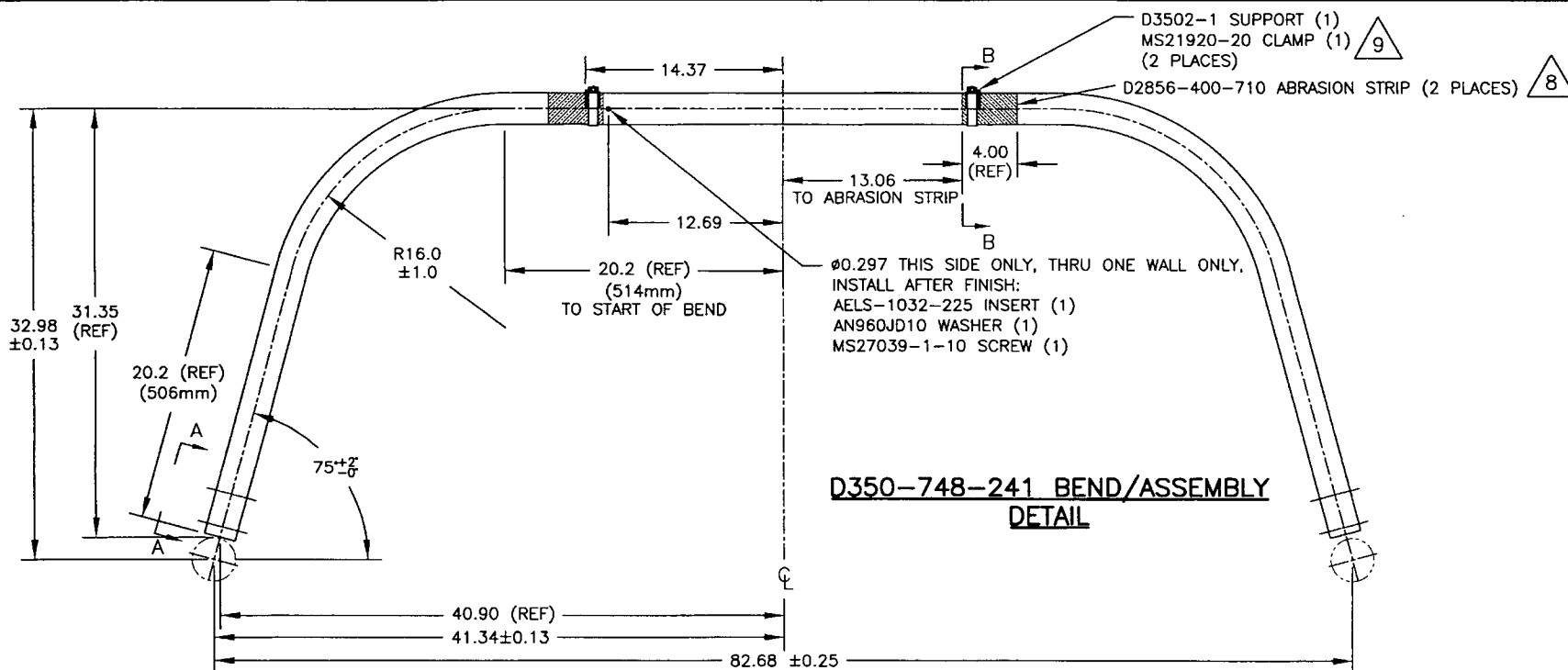
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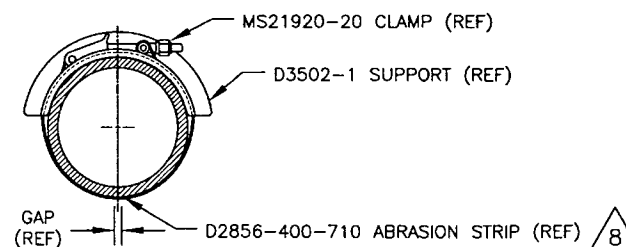
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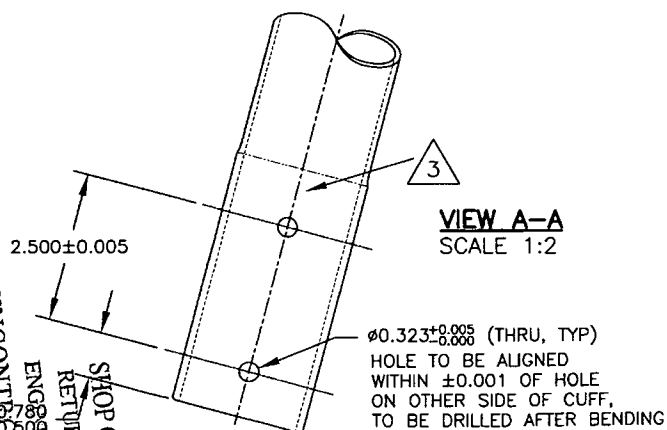
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**SECTION B-B
SCALE 1:2**



**VIEW A-A
SCALE 1:2**



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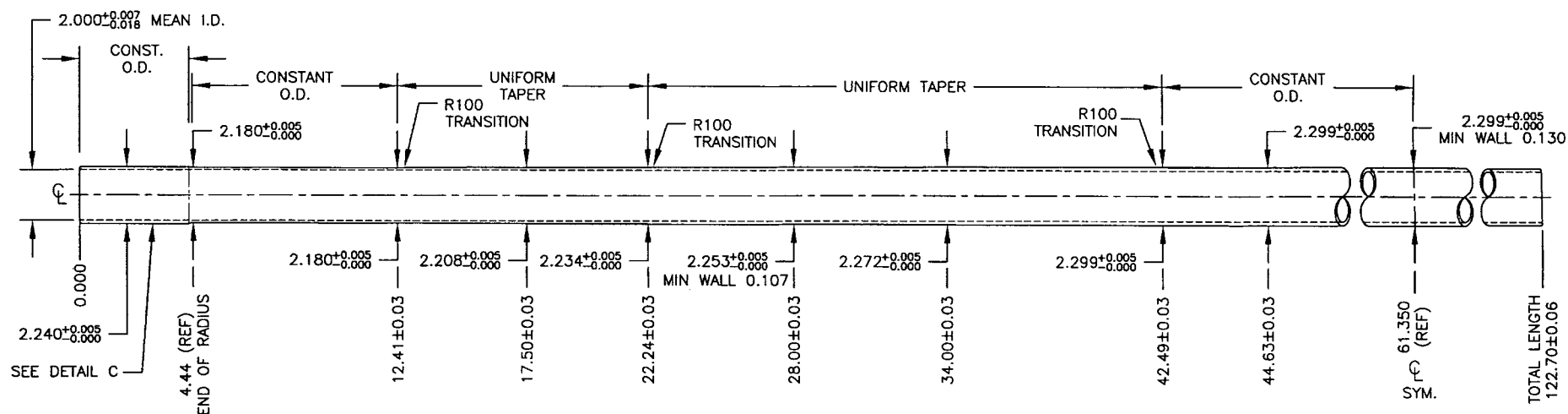
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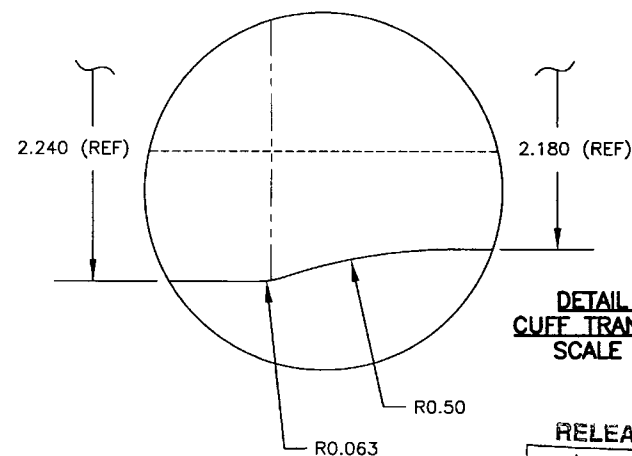
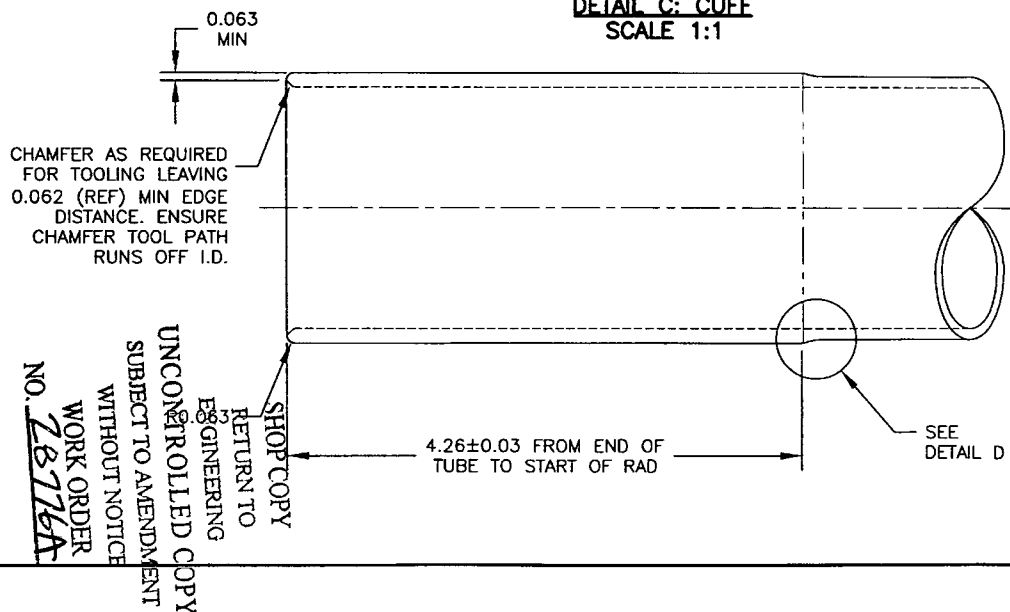
| | | | | | |
|---------|----------|----------|-------------------------------|-----------------------------|--|
| DESIGN | qj | DRAWN BY | qj | DART | DART Aerospace LTD. HAWKESBURY, ONTARIO, CANADA |
| CHECKED | # | APPROVED | # | DRAWING NO. D350-748-241 | REV. D SHEET 2 OF 3 |
| DATE | 06.10.31 | TITLE | CROSSTUBE (AS 350/355 HI AFT) | SCALE | 1:8 |

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D350-748-241 MACHINING DETAIL

**DETAIL C: CUFF
SCALE 1:1**



**DETAIL D:
CUFF TRANSITION
SCALE 9:1**

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| | | | |
|------------------|--|-----------------------------|--|
| DESIGN qp | DRAWN BY qp | DART | DART AEROSPACE LTD. WILLOWDALE, ONTARIO, CANADA |
| CHECKED # | APPROVED # | DRAWING NO. D350-748-241 | REV. D SHEET 3 OF 3 |
| DATE 06.10.31 | TITLE CROSSTUBE (AS 350/355 HI AFT) | SCALE 1:4 | |



Southwest United Industries, Inc.

SOUTHWEST UNITED INDUSTRIES, INC.
422 S. St. Louis Tulsa, OK 74120

Page 1 of 2

CERTIFICATION

DART AEROSPACE LTD

Certification #: 23920

Certification Date: 03/26/2007

| Qty | Part Number/Description | Job-No/Order-No/Ctl-No |
|-----|---------------------------|-------------------------------|
| 1 | D350-748-141 CROSSTUBE | 48090 PO00003206 B28459 |
| 1 | D350-748-141 CROSSTUBE | 48329 PO00003206 B29757 |
| 1 | D350-748-141 CROSSTUBE | 48330 PO00003206 B28773 |
| 1 | D350-748-141 CROSSTUBE | 48331 PO00003206 B29760 |
| 1 | D350-748-141 CROSSTUBE | 48332 PO00003206 B28776 |
| 1 | D350-748-141 CROSSTUBE | 48333 PO00003206 B28775 |
| 1 | D350-748-141 CROSSTUBE | 48334 PO00003206 B28774 |

1. Stress relieve at 350-400F for 4 hours minimum

2. Cadmium plate per AMS-QQ-P-416B, Type II, Class 1 (QQ-P-416, Type II, Class 1)

3. Embrittlement relieve within 4 hours of plating at 350-400F for 8 hours minimum

4. Magnetic particle inspect per ASTM E 1444-05. No linear indications/cracks allowed.

Qty Ins: 7 Qty Rej: 0 Qty Acc: 7

5. Inspect

FAA Repair Station CN2R748K

Subject to Southwest United Industries, Inc. Standard Terms and Conditions available for review at www.swunited.com



Southwest United Industries, Inc.

SOUTHWEST UNITED INDUSTRIES, INC.
422 S. St. Louis Tulsa, OK 74120

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CERTIFICATION

We certify that the parts listed above have been processed in accordance with the requirements and specifications of the above referenced purchase order. Documentation is on file and available for review.

Certification By: 

FAIN, MARK



FAA Repair Station CN2R748K

Subject to Southwest United Industries, Inc. Standard Terms and Conditions available for review at www.swunited.com